

## ABSTRACT

The system is provided with a fuel processor for generating hydrogen from a hydrocarbon compound or from mixtures of hydrocarbon compounds and a combustion path, along which the generated hydrogen is passed for combustion. Included in the combustion path is at least one fuel cell for generating electric energy. The system is further provided with a first heat exchanger and a second heat exchanger which, on the one hand, are series included in the combustion path downstream of the fuel cell, a first heating circuit in which the fuel cell is included, and a second heating circuit in which the fuel processor is included. The first heat exchanger, on the other hand, is included in the first heating circuit. The second heat exchanger, on the other hand, is included in the second heating circuit.